2	BATTERY-GRID MAKING	16	RAILWAY-CHAIR MAKING
2.1	BIAS (I.E., HELICALLY) CUTTING OF	17.1	FOIL OR OTHER THIN SHEET-METAL
2.1	TUBULAR STOCK		MAKING OR TREATING
2.11	.Including orbital cutter	17.2	.Method
2.12	Within stock support	17.3	Clad or other composite foil or
2.13	With orbiting strip accumulator		thin metal making
2.14	.Including means to inflate stock	17.4	With assembling or
2.15	.With means to feed stock along		disassembling of a pack
2.13	support or mandrel	17.5	Using transitory solid cover
2.16	Single means produces compound		material
	motion	17.6	Including bond prevention
2.17	Endless belt drive means		treatment
2.18	Axially	17.7	Disassembling of a pack
2.19	Rotatably	17.8	By shaving or longitudinal
2.2	.With means to rotate and store		cutting
	stock supply	17.9	Using transitory material
2.21	Axis of rotation parallel to	18.1	.Means for opening or separating
	support or mandrel		a pack
2.22	.With means for arcuate shift of	20	SPECTACLE-FRAME MAKING
	mandrel	20.1	SPIRAL CUTTING OF FLAT STOCK
2.23	.Including means to handle	21	STEREOTYPE-PLATE FINISHING
	produced strip or web	21.1	MEANS FOR FORMING CLENCH-TONGUE
2.24	With common adjustment for		(E.G., FOR TIEBAND)
	cutter	22	TIRE UPSETTING, WITH CUTTING,
2.25	.Method		PUNCHING, ETC.
3	BUCKLE MAKING	23.1	TOOTHED-CYLINDER MAKING APPARATUS
4	BUTTON-FASTENER MAKING		(E.G., TEXTURE WORKING
4.51	SHREDDING METAL OR METAL WOOL		CYLINDER)
	ARTICLE MAKING	23.51	IMPELLER MAKING APPARATUS
4.52	.Metal wool making	24	TYPE FINISHING AND GROOVING
4.53	Shaving or longitudinal cutting	24.5	VENETIAN BLIND ASSEMBLING
4.54	Soap-pad making	25	UMBRELLA-FRAME MAKING
4.55	.Metal wool bundling	25.01	BARRIER LAYER OR SEMICONDUCTOR
4.56	Soap-pad making		DEVICE MAKING
4.6	CORD HEDDLE MAKING	25.02	.Barrier layer device making
5	COTTER-PIN MAKING	25.03	Electrolytic device making
6.01	CRANKSHAFT MAKING APPARATUS	05 05	(e.g., capacitor)
6.1	EXPANDED METAL MAKING	25.35	PIEZOELECTRIC DEVICE MAKING
6.2	.By use of reciprocating	25.41	ELECTRIC CONDENSER MAKING
	perforator	25.42	.Solid dielectric type
7	EYEBOLT OR HOOK MAKING	76.1	FILING
7.1	FENCE BARB MAKING	76.2	.Of key article
7.2	.By use of reciprocating cutter	76.3	.Continuous band type
	or die	76.4	Reciprocating type
7.3	.By use of rotary cutter or die	77	.File-blank stripper
8	FINGER-RING FORMING OR SIZING	81.01	SCALE REMOVER OR PREVENTOR
9	FISHHOOK MAKING	81.02	.For hollow workpiece
10	GEM AND JEWEL SETTING	81.021	Interior surface
11	HINGE MAKING OR ASSEMBLING	81.03	.Rolling deformation or
12	LACING-STUD MAKING	01 04	deflection
13	PAPER-FASTENER MAKING	81.04	For wire or rod .With rotary head
14		81.05	WILD YOTSYN DASA
	PLOW OR CULTIVATOR IRON MAKING	81.06	.Fluid impingement

81.07	With heater	603.03	Making disc drive
81.08	Liquid jet	603.04	Mounting preformed head/core
81.09	Airblast		onto other structure
81.1	.Chainer	603.05	Mounting multitrack head
81.11	.Scraper or scalper	603.06	With bonding
81.12	.Brush type	603.07	Fabricating head structure or
81.13	.Mechanically powered operator		component thereof
81.14	Tack or needle type	603.08	Treating to affect magnetic
81.15	Hammer	003.00	properties
81.16	Blade or chisel	603.09	Including measuring or
81.17		003.05	testing
	.Hand tool	603.1	Using reference point/
89.5	BURNING IN, WEARING IN, OR OIL BURNISHING	003.1	surface to facilitate
00 01			measuring
90.01	BURNISHING	603.11	With dual gap materials
90.1	.Of water laid fibrous article	603.12	With significant slider/
00 0	(e.g., paper)	003.12	housing shaping or treating
90.2	Heated burnishing member	603.13	Depositing magnetic layer
90.3	Burnishing tool reciprocates	003.13	or coating magnetic layer
	across work surface	603.14	_
90.5	.Continuous feed	603.14	5 -
90.6	.Of gear article	602 1E	layers
90.7	.By shot peening or blasting	603.15	With etching or machining
91	UPHOLSTERED ARTICLE MAKING	602 16	of magnetic material
91.1	.Method	603.16	Machining magnetic material
91.2	.Tufting		(e.g., grinding, etching,
91.3	With means to clench fastener	602 17	polishing)
91.4	With means to insert guide pin	603.17	Employing workholding means
	or fastener	603.18	By etching
91.5	.Cover stretching	603.19	Multitrack heads having
91.6	.Edge-roll forming		integral holding means
91.7	.Form or holder	603.2	With bond/laminating
91.8	With follower		preformed parts, at least two
592	METHOD OF MECHANICAL MANUFACTURE		magnetic
592.1	.Electrical device making	603.21	Using glass bonding
593	Including measuring or testing		material
	of device or component part	603.22	With work positioning means
594	Acoustic transducer	603.23	Providing winding
595	Indicating transducer	603.24	Multilayered winding
596	Dynamoelectric machine		By coating
597	Commutator or slip ring	603.26	Preformed winding
0,5	assembly	603.27	Specified diverse magnetic
598	Rotor		materials
599	Superconductor	604	Data storage inductor or core
600	Antenna or wave energy	605	By winding or coiling
000	"plumbing" making	606	By assembling coil and core
601	With other electrical	607	Including permanent magnet or
001	component		core
602.1	Electromagnet, transformer or	608	From comminuted material
UU4.1	inductor	609	Laminated
603.01		609.1	Acoustic transducer
003.01	Magnetic recording reproducing	610.1	Resistor making
	<pre>transducer (e.g., tape head, core, etc.)</pre>	611	Heater type
603.02	Including dissassembly step	612	Thermally variable
003.04	Incruding dissassembly scep		-

613	With envelope or housing	845	With shaping or forcing
614	Filling with powdered		terminal into base aperture
	insulation	846	Manufacturing circuit on or
615	With direct compression of		in base
	powdered insulation	847	With selective destruction
616	Powdering the insulation		of conductive paths
617	By oxidation	848	With molding of insulated
618	With winding		base
619	Applying terminal	849	Simultaneous circuit
620	Coating resistive material on		manufacturing
	a base	850	By using wire as conductive
621	Applying terminal		path
621.1	Strain gauge making	851	With sintering of base
622	Switch making	852	By forming conductive walled
623	Fuse making		aperture in base
623.1	Electric battery cell making	853	With deforming of
623.2	Including sealing		conductive path
623.3	Including laminating of	854	Assembling electrical
	indefinite length material		component directly to terminal
623.4	Including adhesively bonding		or elongated conductor
623.5	Including coating or	855	With encapsulating
	impregnating	856	By molding of insulating
825	Conductor or circuit		material
	manufacturing	857	Assembling terminal to
826	Brush		elongated conductor
827	Beam lead frame or beam lead	858	With molding of electrically
	device		insulating material
828	Co-axial cable	859	By shrinking of cover
829	On flat or curved insulated	860	By metal fusion bonding
	base, e.g., printed circuit,	861	By deforming
	etc.	862	Of ferrule about conductor
830	Assembling bases		and terminal
831	Assembling formed circuit to	863	Of terminal
	base	864	\ldots .With forming eyelet from
832	Assembling to base an		elongated conductor
	electrical component, e.g.,	865	\ldots With penetrating portion
	capacitor, etc.	866	Through insulation
833	By utilizing optical	867	With insulation removal
	sighting device	868	Assembling elongated
834	With component orienting		conductors, e.g., splicing,
835	And shaping, e.g., cutting		etc.
	or bending, etc.	869	With end-to-end orienting
836	Different components	870	Including fluid evacuating
837	By inserting component lead		or pressurizing
	or terminal into base aperture	871	Including deforming of
838	With deforming of lead or		joining bridge
	terminal	872	With overlapping orienting
839	Including metal fusion	873	Including oppositely facing
840	By metal fusion		end orienting
841	With encapsulating, e.g.,	874	Contact or terminal
	potting, etc.	0.77	manufacturing
842	Assembling terminal to base	875	By powder metallurgy
843	By metal fusion bonding	876	By assembling plural parts
844	By deforming or shaping	877	With bonding
		878	Of fused material

879	Makal	000 072	Tooluding socking on molding
880	Metal		Including casting or molding
000	By impregnating a porous mass	000.073	Including rolling or die forming, e.g., drawing,
881	By elastic joining		punching
882	With deforming	888 N74	Including coating or plating
883	_		Including grinding or honing
	With molding of insulation		Including machining or angular
884	Forming array of contacts or terminals	888.070	cutting
885	With coating	888.08	Crankshaft making
886	Electret making		Connecting rod making
887	Insulator making		Including metallurgical
888		000.091	bonding
888.01	I.C. (internal combustion)	888 092	Including metal forging or die
000.01	engine making	000.072	shaping
000 011	Repairing, converting,	888.1	Camshaft making
000.011	servicing or salvaging	888.2	Push rod or rocker arm making
000 010	Rotary or radial engine making	888.3	Seal or packing making
	Rotary of radial engine makingFluid pump or compressor making	888.4	Poppet or I.C. engine valve or
		000.4	valve seat making
000.021	Repairing, converting,	888.41	Valve guide making
000 000	servicing or salvaging	888.42	Repairing, converting,
	Scroll or peristaltic type	000.42	servicing or salvaging
888.023	Screw or gear type, e.g.,	888.43	Valve tappet making
000 004	Moineau type	888.44	Valve tappet makingValve seat making
	Centrifugal type	888.45	Composite or hollow valve stem
888.025	Vane type or other rotary,	000.45	or head making
000 03	e.g., fan	000 /61	Including forging
	Valve lifter making		Including rorgingIncluding extruding
	Piston making		Including extracting
000.041	Repairing, converting,	888.46	With assembly or composite
000 012	servicing or salvagingMulti-element piston making	000.40	article making
	Utilizing a high energy beam,	889	.Impeller making
000.043	e.g., laser, electron beam	889.1	Repairing or disassembling
000 044	With assembly or composite	889.2	Turbomachine making
000.044	article making	889.21	Assembling individual fluid
999 045	With thermal barrier or heat	009.21	flow interacting members,
000.045	flow provision		e.g., blades, vanes, buckets,
999 016	With fiber reinforced		on rotary support member
000.040	structure	889.22	Assembling fluid flow
888 047	By composite casting or	007.22	directing devices, e.g.,
000.047	molding		stators, diaphragms, nozzles
888 048	By coating or cladding	889.23	Shaping integrally bladed
	Ring groove forming or	007.20	rotor
000.045	finishing	889.3	Axial blower or fan
888.05	Gudgeon pin, wrist pin, piston	889.4	Centrifugal blower or fan
000.03	pin, or boss therefor	889.5	Fluid coupling device
888 051	With other attaching provision	889.6	Propeller making
300.031	for connecting rod	889.61	Utilizing hollow tube blank
888.06	Cylinder, cylinder head or	889.7	Blade making
555.00	engine valve sleeve making	889.71	Composite blade
888 061	With liner, coating, or sleeve	889.72	Hollow blade
888.07	Piston ring or piston packing		With cooling passage
300.07	making		Passage contains tubular
888.071	Including forging or hammering		insert
223.071	Lorging or namering	890	.Catalytic device making

890.01	.Rocket or jet device making	890.124	With assembly, disassembly or
890.02	.Burner, torch or metallurgical		composite article making
	lance making	890.125	Joining plural semi-circular
	.Heat exchanger or boiler making		components
890.031	Repairing, converting,	890.126	With material shaping or
	servicing or salvaging		cutting
890.032	Heat pipe device making	890.127	Including molding or casting
890.033	Solar energy device making	890.128	Including machining or
890.034	Regenerator or recuperator		drilling
	making	890.129	Including metallurgical
890.035	Cooling apparatus making, e.g.,		bonding
	air conditioner, refrigerator		Including metal deforming
	Tube inside tube	890.131	Including metallurgical
890.037	Tube wound about tube		bonding
890.038	Tube joined to flat sheet	890.132	Including metal shaping and
	longitudinally, i.e., tube		diverse operation
	sheet	890.14	.Gas and water specific plumbing
	Sheet joined to sheet		component making
	With inserted tubes		Plumbing fixture making
890.041	Utilizing bond inhibiting		Nozzle making
	material		Sprayer
890.042	With subsequent fluid	890.144	Flexible conduit or fitting
	expansion		therefor
890.043	Tube joint and tube plate		Flue connector device making
	structure		Trap making
890.044	Including conduit expansion or		Return connector device making
	inflation	890.148	T-shaped fitting making
000 045			
	Tube with heat transfer means		Elbow or L-shaped fitting
890.046	Tube with heat transfer meansFinned tube	890.149	Elbow or L-shaped fitting making
890.046	Tube with heat transfer meansFinned tubeCommon fin traverses	890.149 890.15	Elbow or L-shaped fitting makingFerrule making or reforming
890.046 890.047	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubes	890.149 890.15 891	Elbow or L-shaped fitting makingFerrule making or reforming.Agricultural device making
890.046 890.047 890.048	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finned	890.149 890.15	Elbow or L-shaped fitting makingFerrule making or reforming.Agricultural device makingTraction apparatus, e.g., for
890.046 890.047 890.048 890.049	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finned	890.149 890.15 891 891.1	Elbow or L-shaped fitting makingFerrule making or reforming.Agricultural device makingTraction apparatus, e.g., for tractor
890.046 890.047 890.048 890.049	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece,	890.149 890.15 891 891.1 891.2	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making Traction apparatus, e.g., for tractor Harvester guard
890.046 890.047 890.048 890.049 890.05	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly	890.149 890.15 891 891.1 891.2 892	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making Traction apparatus, e.g., for tractor Harvester guard .Pulley making
890.046 890.047 890.048 890.049 890.05	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler making	890.149 890.15 891 891.1 891.2 892 892.1	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly
890.046 890.047 890.048 890.049 890.05 890.051 890.052	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold making	890.149 890.15 891 891.1 891.2 892 892.1 892.11	<pre>Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shaping</pre>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reforming	890.149 890.15 891 891.1 891.2 892 892.1	<pre>Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley</pre>
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding	890.149 890.15 891.8 891.1 891.2 892.8 892.1 892.11 892.2	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making	890.149 890.15 891 891.1 891.2 892 892.1 892.11	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove Groove forming in sheet metal
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove Groove forming in sheet metal pulley rim
890.046 890.047 890.048 890.05 890.05 890.051 890.053 890.054 890.06 890.07	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear making
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06 890.07	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making	890.149 890.15 891 891.1 891.2 892.8 892.1 892.11 892.2 893.3	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove Groove forming in sheet metal pulley rim .Gear making Assembling of gear into force transmitting device
890.046 890.047 890.048 890.05 890.05 890.051 890.053 890.054 890.06 890.07	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device	890.149 890.15 891 891.1 891.2 892.8 892.1 892.11 892.2 893.3	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping .Disc splitting to form pulley rim groove Groove forming in sheet metal pulley rim .Gear making Assembling of gear into force transmitting device Gear mounting
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06 890.07	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3 893.3	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping Disc splitting to form pulley rim groove Groove forming in sheet metal pulley rim .Gear making Assembling of gear into force transmitting device Gear mounting Gear shaping
890.046 890.047 890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06 890.07	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device	890.149 890.15 891.891.1 891.2 892.892.1 892.2 892.3 893.3 893.1	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping .Disc splitting to form pulley rim groove .Groove forming in sheet metal pulley rim .Gear making Assembling of gear into force transmitting device Gear mounting Gear shaping Worm gear
890.046 890.047 890.048 890.049 890.05 890.052 890.053 890.054 890.06 890.07 890.08	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making, e.g., ink jet	890.149 890.15 891 891.1 891.2 892.8 892.1 892.2 892.3 893.3 893.1 893.2 893.3 893.31 893.32	 Elbow or L-shaped fitting making Ferrule making or reforming .Agricultural device making .Traction apparatus, e.g., for tractor Harvester guard .Pulley making Assembly With shaping .Disc splitting to form pulley rim groove .Groove forming in sheet metal pulley rim .Gear making Assembling of gear into force transmitting device Gear shaping Worm gear Roll forming
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06 890.07 890.08	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making, e.g., ink jet .Tapping device making	890.149 890.15 891.2 891.2 892.1 892.11 892.2 892.3 893.3 893.1 893.2 893.3 893.31 893.32 893.33	Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll formingPunching or stamping
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890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06 890.07 890.08 890.09 890.1	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making .Fluid pattern dispersing device making .Valve or choke making .Repairing, converting, servicing or salvaging	890.149 890.15 891 891.1 891.2 892 892.1 892.2 892.3 893.3 893.3 893.3 893.31 893.32 893.33 893.34 893.35 893.36	<pre>Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll formingPunching or stampingDie-press shapingGear tooth cuttingGear blank making</pre>
890.046 890.047 890.048 890.05 890.05 890.052 890.053 890.054 890.06 890.07 890.08 890.09 890.1 890.1 890.12 890.12	Tube with heat transfer meansFinned tubeCommon fin traverses plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making .Fluid pattern dispersing device making .Valve or choke making .Repairing, converting,	890.149 890.15 891 891.1 891.2 892.892.1 892.2 892.3 893.3 893.3 893.31 893.32 893.33 893.34 893.35	<pre>Elbow or L-shaped fitting makingFerrule making or reforming .Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll formingPunching or stampingDie-press shapingGear tooth cutting</pre>

004 01		005 013	1
	Railway or trolley wheel making	895.213	Work contacting surface
	Multiple part or composite	005 00	having annular axial sections
	With axle or hub	895.22	Work contacting surface
	Steering wheel		element assembled to end
894.2	Material winding, e.g., reel,		support members
	spool	895.23	Includes securing removable
894.3	Land wheel		cover on roller
894.31	Assembling tire to wheel body	895.3	Fabricating and shaping roller
894.32	Disc type wheel		work contacting surface
894.321	Assembling wheel disc to rim		element
	and hub	895.31	Toothed roller
894.322	Assembling wheel disc to rim	895.32	With coating or casting about
894.323	With disc shaping		a core
	Integral rim and disc making	895.33	One-piece roller making
	Disc shaping	896.1	.Dental appliance making
	Tensioned spoke type wheel	896.11	Orthodontic device making
071.33	making	896.2	.Sound device making
894 331	Tensioning all spokes	896.21	Hearing aid component making
071.331	simultaneously	896.22	Musical instrument or tuning
004 222	Tensioning spokes in series	0,0,1	fork making
	Tensioning spokes in series	896.23	Including diaphragm or support
094.333	<u> </u>	0,0.23	therefor
004 24	individually	896.24	Phonograph component making
894.34	Compression, e.g., nontension,	896.3	.Watch or clock making
004 241	spoke type wheel making	896.31	Having arbor, pinion, or
	Joining spokes to rim and hub	090.31	balance
	Joining spokes to rim	906 22	
	Joining spokes to hub		Having indicia, face, or dial
894.344	Making plural spokes from a	896.33	Having case, cover, or back
	single blank	896.34	Having crown, stem, or pendent
	Individual spoke making	896.4	.Jewelry or locket making
	Rim making	896.41	Human adornment device making
	With assembling		Bracelet making
	Demountable rim making		Finger ring making
894.353	Die-press shaping	896.42	Latch, clasp, or fastener
894.354	Roller forming		component making
894.36	Hub making	896.43	Ornamental stock making
894.361	With assembling	896.5	.Knob or knob shank making
894.362	Hub shaping	896.6	.Multiperforated metal article
894.37	Tire making		making
894.38	Wheel trim making, e.g., wheel	896.61	Coil wound wall screen
	cover, hubcap	896.62	Filter
894.381	With means for retaining trim	896.7	.Turnbuckle making
	member on wheel	896.8	.Spring-head clip making
895	.Roller making	896.9	.Spring making
895.1	Repairing or servicing	896.91	For vehicle or clutch
895.2	Assembling preformed components	896.92	For human comfort
895.21	Work contacting surface	896.93	Resilient shock or vibration
	element assembled to core		absorber utility
895.211	Work contacting surface wound	897	.Structural member making
	about core	897.1	Restoring existing member,
895.212	With prestressing of		e.g., reinforcing, repairing
320.010	component by heat	897.15	Grille making
	differential, e.g., shrink,	897.2	Vehicular structural member
	fit	•	making
			<u>-</u>

897.3	Static structure, e.g., a		Roller making
	building component		Ball making
897.31	Openwork, e.g., a truss,		Mounting
	joist, frame, lattice-type or	898.08	Demounting
	box beam	898.09	Pre-usage process, e.g.,
	Frame component		preloading, aligning
897.32	Panel	898.1	Lubricating
897.33	Columnar member	898.11	Sealing
897.34	Metal reinforcement member for	898.12	Coating or casting
	nonmetallic, e.g., concrete,	898.13	Bearing surface treatment
	structural element	898.14	Specific metallic composition
897.35	Beam or girder	898.15	Nonmetallic bearing element
898	.Process for making bearing or	899	.Ball making
	component thereof	899.1	Hollow ball
898.01	Repairing	401.1	.Converting
898.02	Fluid bearing	402.01	.Repairing
898.03	Linear bearing	402.02	Seal or element thereof
898.04	Rotary bearing	402.03	
898.041	Thrust bearing	402.04	Including reconditioning of
898.042	Plain bearing	102.01	part
898.043	Self-adjusting or self-	402.05	By shaping
	aligning, including ball and	402.06	Removing material
	socket type, bearing and	402.07	And by a metallurgical
	component making	402.07	operation, e.g., welding,
898.044	Deforming socket to secure		diffusion bonding, casting
	ball	102 08	Replacing of defective part
898.045	Die-press shaping		
	Having liner	402.09	By attaching repair preform,
	Having liner		e.g., remaking, restoring, or
	Socket making	400 11	patching
	By molding or casting		And removing damaged material
	Nonmetallic socket	402.12	Mechanically attaching
	By assembling	400 10	preform with separate fastener
	Ball making	402.13	Metallurgically attaching
		400 14	preform
	With metallurgical bonding	402.14	Mechanically attaching preform
	Sleeve or bushing making	400 45	by separate fastener
	Nonmetallic	402.15	Screw threaded fastener
	Strip or blank material	402.16	Metallurgically attaching
	shaping		preform
	Die-press shaping	402.17	Screw threaded preform
	Having inner lining layer	402.18	By applying fluent material,
	Having liner		e.g., coating, casting
898.06	Anti-friction bearing or	402.19	By shaping, e.g., bending,
	component thereof		extruding, turning, etc.
898.061	Assembling of race, cage, and	402.21	Including heating
	rolling anti-friction members	403.1	.Scrap recovering or utilizing
898.062	Assembling of race and	403.2	Metalworking to consolidate
	rolling anti-friction members		scrap
898.063	With race making	403.3	Separating one material from
898.064	Assembling of cage and		another
	rolling anti-friction members	403.4	By burning or heating
898.065	With cage making	404	.During simulated operation or
	Race making	-	operating conditions
	Cage making	405	Temperature
'	J J		· · · · · · · · · · · · · · · · · · ·

406	.Center locating and shaping	426.1	.Disassembling
407.01	.With testing or indicating	426.2	With other than ancillary
407.02	Torquing threaded assemblage or		treating or assembling
	determining torque herein	426.3	With conveying of work or
407.03	Determining relative number of		disassembled work part
	threaded member rotations	426.4	By altering or destroying work
407.04	Using optical instrument		part or connector
	(excludes mere human	426.5	By applying force
	eyeballing)	426.6	To elastically deform work
407.05	Quantitative measuring or		part or connector
	gauging	428	.Assembling or joining
407.06	By radioactive tracing	429	Progressively advancing of work
407.07	By vibratory or oscillatory		assembly station or assembled
400 00	movement	420	portion of work
407.08	Pressure, force, or weight	430	Advancing work to successive
40= 00	determining	404	stations (i.e., assembly line)
407.09	With aligning, guiding, or	431	Advancing station
40= 4	instruction	432	Punching, piercing or reaming
407.1	Assisting assembly or		part by surface of second part
400	disassembly	432.1	With shaping
408	.Of a slide fastener	432.2	Of first part
409	Of slider	433	By stringing
410	Of interlocking element	434	Retaining clearance for motion
411	.Obtaining plural composite		between assembled parts
	<pre>product pieces from preassembled workpieces</pre>	435	Between tube-forming helical coils
412	.Obtaining plural product pieces	436	Through resilient media
	from unitary workpiece	437	By deforming interlock
413	Breaking through weakened	438	By folding part into plural
	portion	100	ears
414	Dividing through modified	439	By wrapping around
	portion	440	Of link closure
415	Dividing on common outline	441.1	Of sphere, i.e., ball, in
416	Coacting pieces		socket
417	Dividing sequentially from	441.2	Ball point pen making
	leading end, e.g., by cutting	442	Allowing assembled sphere to
	or breaking		move in single plane only
418	.Providing transitory integral	443	Of flange into tubular socket
	holding or handling portion	444	Outwardly deforming
419.1	.Shaping fiber or fibered		internally fitted rod
	material	445	Sizing mating parts during
419.2	.Magnetically shaping		final positional association
421.1	.Shaping by direct application of	446	With prestressing of part
	fluent pressure	447	By temperature differential
421.2	Explosively shaping		(e.g., shrink fit)
422	.Shaping container end to	448	Of skin on frame member
	encapsulate material	449	By flexing
423	.Utilizing transitory attached	450	Elastic joining of parts
	element or associated separate material	451	Confining elastic part in
424		450	socket
747	Temporary protective coating, impregnation, or cast layer	452	Prestressing rod, filament or
425	Shaping mating parts for	453	strand
129	reassembly in different	453	By snap fit
	positions		

454	Of flexible wall, expansible	518	Joined to overlapping ends
	chamber devices (e.g.,		of plural rods
	bellows)	519	After thinning
455.1	Spaced wall tube or receptacle	520	By axially applying force
456	Of separate helix (e.g., screw	521	Surface interlocking
	thread)	522.1	Radially expanding part in
457	Ribbing		cavity, aperture, or hollow
458	With coating before or during		body
	assembling	523	Radially expanding internal
459	To roughen surface		tube
460	Subsequently coating	524	Peripheral edge joining of
461	With spreading of cable strands	521	abutting plates
462		524.1	Riveting
402	Joining plate edge	525	
462	perpendicularly to frame		By driven force fit
463	Peripheral joining of opposed	525.01	By applying separate fastener
	mirror image parts to form a	525.02	Multipart cooperating fastener
	hollow body		(e.g., bolt and nut)
464	Associating parts by use of	525.03	Nonthreaded
	aligning means (e.g., use of a	525.04	At least one part is
	drift pin or a "fixture")		nonmetallic
465	Registering mating opposed	525.05	Fastener deformed after
	tool parts (e.g., registering		application
	a punch and a cooperating die)	525.06	Riveting
466	By multiple cooperating	525.07	At least one part
	aligning means		nonmetallic
467	Sequentially associating parts	525.08	Nonresilient fastener
	on stationary aligning means	525.09	At least one part nonmetallic
468	By manipulating aligning means	525.11	Threaded fastener
469	Assembling a subassembly, then	525.12	At least one part nonmetallic
200	assembling with a second	525.12	
	subassembly		With supplemental joining
469.5	Metal deforming with	525.14	Metal fusion joining
100.5	nonmetallic bonding	525.15	At least one part nonmetallic
505	Joining by deforming	526.2	.With separating, localizing, or
506	Securing cup or tube between		eliminating of as-cast defects
300			from a metal casting (e.g.,
	axially extending concentric		anti-pipe)
F 0 F	annuli	526.3	Compressing ingot while still
507	By expanding inner annulus		partially molten
508	By constricting outer annulus	526.4	Removing defects
509	Overedge assembling of seated	526.5	From center of ingot to leave
	part		hollow blank
510	By necking in cup or tube	526.6	After deforming
	wall	527.1	.Combined manufacture including
511	At cup or tube end		applying or shaping of fluent
512	By flaring inserted cup or		material
	tube end	527.2	Coating
513	By bending over projecting	527.3	And casting
	prongs	527.4	Subsequent to metal working
514	Of parallel side-by-side		_
	elongated members	527.5	Metal casting
515	Inward deformation of aperture	527.6	Followed by cutting or
J ± J	or hollow body wall	F0F	removing material
516	Hollow body is axially joined	527.7	Combined with rolling
310	cup or tube	530	Filling of opening
517	Joined to rod	557	.Shaping one-piece blank by
J ± 1	uomea to roa		removing material

558	Successive distinct removal operations	564.4	Comprising means to strip insulation from wire
559	.Work holding	564.5	And means to stake electric
560	CONVERTIBLE METAL WORKING MACHINE		wire to commutator or armature
560.1	.Vise type		in assembling of electric
33 R	PLURAL DIVERSE MANUFACTURING		motor or generator
	APPARATUS INCLUDING MEANS FOR	564.6	And means to sever work from
	METAL SHAPING OR ASSEMBLING		supply
33.2	.Slide fastener or slide fastener	564.7	And means to machine product
	element	564.8	To sever product to length
33.5	.Binding or covering and cutting	565	.Common reciprocating support for
33.52	Cutting covering material only		spaced tools
	.Type of machine	566	.Including composite tool
26 R	Drill press	566.1	Including severing means
26 A	Drilling and other	566.2	To sever electric terminal
26 B	Portable		from supply strip
27 R	Lathe	566.3	To trim electric component
28	Grinding attachment	566.4	Means comprising hand-
29	Pulley or wheel		manipulatable implement
27 A	Convertible	35.5	.With turret mechanism
27 A 27 B	Commutator	36	Multiple turret
27 C	Lathe and tool	39	Tool turret
30	Planer	40	Rotary tool holder
34 R		41	Sliding tool holder
34 K	.Forging and bending, cutting or	42	Fluid operated
24 7	punching	72	Cam operated
34 A	Fastener (zipper)	43	Longitudinal turret axis
34 B	Riveting	44	Transverse turret axis
34 C	Ball making	45	
34 D	Wire working		Lever operated
561	.With means to feed work during	46	Rack-and-pinion operated
	tool contact	47	Screw operated
562	Including nonrotary flying tool	48.5 R	Including rotating and/or
563	.With means to feed work	4.0	locking means
	intermittently from one tool	49	Frictional and positive
	station to another	48.5 A	Lock means for tool or work
37 R	Stock turret	F-0	turrets
37 A	Swiss type	50	.Multiple-tool holder
38 R	Blank turret	51	Laterally movable stock holder
38 A	Rotary work - vertical axis	52	Axial tool and transversely
38 B	Rotary work - horizontal axis		movable slide rest
38 C	Stationary work	53	Rotary tool spindle
38 D	Belt drive	54	Longitudinally and transversely
38 E	Crankshaft		movable
38 F	Collapsible tube	55	Rotary tool spindle
38.9	Endless belt	56	Oscillating tool
564	.Separate tool stations for	56.5	.Including machining means
	selective or successive	56.6	And work-holder for assembly
	operation on work	57	.Attachment
564.1	Including assembling or	64	.Speed controller
	disassembling station	65	.Carriage stop mechanism
564.2	And means to machine work part	33 A	.Flash remover
	to fit cooperating work part	33 B	.Welding strip ends
564.3	And means to sever work prior	33 C	.Casting and working
	to disassembling	33 D	.Tube making

33 E	.Covering	720	.With signal, scale, illuminator,
33 F	.Wire working		or optical viewer
33 G	.Radiator making	721	For work-holder for assembly or
33 H	.Printing plate		disassembly
33 J	.Turret	722	.Including means to provide a
33 K	.Assembly		controlled environment
33 L	.Armature	723	.Nuclear device
33 M	.Electrical connector or terminal	724	.Roller or ball bearing
33 N	.Tire valve or spark plug	725	Including deforming means
33 P	.Multiple station with conveyor	726	.Heat exchanger
33 Q	.Multiple stations working strip	726.5	Including means to manipulate
	material		heat exchanger tube bundle
33 S	.Continuous strip	727	Including deforming means
33 T	.Work on tubes	728	.Means to place sheath on
650	PLURAL DIVERSE MANUFACTURING		running-length core
	APPARATUS	729	.Means to assemble electrical
700	MEANS TO ASSEMBLE OR DISASSEMBLE		device
701	.With means to regulate operation	730	Storage cell or battery
	by use of templet, tape, card	731	Including deforming means
	or other replaceable	732	Motor or generator
	information supply	733	Means to assemble commutator
702	With comparator	734	Means to position insulation
703	Computer input	735	Means to stake wire to
704	Web or strand-carried		commutator or armature
	information supply	736	Including deforming means
705	.With means to test work or	737	Magnetic memory device
	product	738	Laminated device
706	.With randomly actuated stopping	739	Means to fasten electrical
	or disabling means	, 55	component to wiring board,
707	Responsive to condition of work		base, or substrate
	or product	740	Chip component
708	Responsive to operative (e.g.,	741	Multilead component
	safety device, etc.)	742	Multiple station assembly
709	.With control means energized in		apparatus
	response to activator	743	Means to apply vacuum directly
	stimulated by condition sensor		to position or hold work part
710	Including means to divert	744	Means to apply magnetic force
	defective work part		directly to position or hold
711	Multiple station assembly or		work part
	disassembly apparatus	745	Conductor
712	Including position sensor	746	Electrode
713	Responsive to timer	747	Terminal or connector
714	Responsive to work or work-	748	Assembled to wire-type
	related machine element		conductor
715	With means to fasten by	749	Means to simultaneously
	deformation		assemble multiple, independent
716	Self-piercing work part		conductors to terminal
717	With means to fasten by	750	Means comprising hand-
	elastic joining		manipulatable implement
718	With means to fasten by	751	Fastening by deformation
	frictional fitting	752	Fastening by elastic
719	Including means to apply		joining
	magnetic force directly to	753	Means to fasten by
	position or hold work		deformation

754	Means to fasten by elastic	790	By friction fit
	joining	791	.Multiple station assembly or
755	Multiple, independent		disassembly apparatus
	conductors	792	Including turret-type conveyer
756	Switch or fuse	793	Including converging conveyers
757	Means to simultaneously fasten	794	And primary central conveyer
	three or more parts	795	Means to fasten work parts
758	Means comprising hand-		together
750	manipulatable implement	796	By deforming
759	Means to align and advance work	797	By elastic joining
760	part	798	.Means to drive self-piercing
760 761	With work-holder for assembly	500	work part
761	Means to fasten by deforming	799	.Including assembly pallet
762	.Means to disassemble electrical device	800	.Including provision to utilize thermal expansion of work
763	Storage cell or battery	801	.Means to assemble or disassemble
764	Means comprising hand-		container and fluid component
	manipulatable implement	802	.Vehicle wheel
765	.Means to place traveler on ring	803	Railway wheel
	or ring on bobbin of a textile	804	.Tumbler lock
	machine	805	.Toy doll
766	.Slide fastener	806	.Film or tape cartridge
767	Means to assemble stop onto	807	.Crystal to watch or clock
	stringer	808	.Means to insert or extract pen
768	Means to assemble slider onto		point
	stringer	809	.With magazine supply
769	Means to assemble teeth onto	810	And magnetic work-holder or
	stringer		positioner
770	Disassembly means	811.2	Assembling means comprising
771	.Means to interrelatedly feed		hand-manipulatable implement
	plural work parts from plural	812	One work part comprising
	sources without manual		living tissue
	intervention	812.5	Comprising driver for snap-
772	Box or pallet assembly means		off-mandrel fastener; e.g.,
773	Means to assemble container		Pop (TM) riveter
774	Handle to container	813	One work part comprising nut
775	Label to container		or screw
776	Pressurized dispensing	814	One work part comprising paper
	container		clip
777	Hypodermic syringe	815	Means to assemble tire stud
778	Including fluid component		into tire tread
779	Running-length work	816	Means to fasten by deforming
780	Means including orbiting running-length work supply	817	Fastening sinker to fishing line
781	Pipe section	818	Means to fasten by deforming
782	Assembled to article	819	.Running-length work
783	Multiple station assembly	820	Assembled on core
	apparatus	821	.Including means to vibrate work
784	Including assembly pallet	822	.Including work conveyer
785	Including turret-type conveyer	823	Including transporting track
786	Including converging conveyers	824	And work carrying vehicle
787	And means to fasten work parts	213.1	.Valve applying or removing
	together	214	Engine valve unit puller or
788	By deforming		applier
789	By elastic joining		

215	Engine valve spring compressor	243.522	Including near side fastener
	(only)		shaping tool
216	Plural spring engagement	243.523	Pneumatic- or fluid-actuated
217	Screw operated		tool
218	Parallel or tong type, side	243.524	Liquid
	entrance	243.525	And gas
219	Lever operated	243.526	Having rotary drive
220	Single jaw or valve		mechanism
	engagement	243.527	Having allochiral actuating
221	Plier type		handles
221.5	To or from wheel rim of	243.528	Having repositionable
	resilient tire or tube		annulus engaging tool
221.6	Removal tool	243.529	Including near side fastener
222	.Piston ring inserter or remover		shaping tool
223	Plier-type operation	243.53	Riveter
224	With ring encirclement		Single header
225	.Spring applier or remover		Pipe joiner
226	Transmission spring		Clip applier
227		243.50	
	Helical spring		
228	Flat spiral spring (e.g., watch	243.58	Edge binding
	or clock type)	244	.Puller or pusher means,
229	Circular spring		contained force multiplying
230	Leaf spring		operator
231	.Means to stake watch or clock	245	Hubcap and hub
232	Plier type	246	Battery post and terminal
233	.Brake lining to brake shoe	247	Cotter pin and cooperating
234	.Tube and coextensive core		member
235	.To apply or remove a resilient	248	Plier type means
	article (e.g., tube, sleeve,	249	Valve stem pin or key and
	etc.)		another member
235.5	Nipple to nursing bottle	250	Machine key and another member
236	Well protector to sucker rod	251	Arbor-type press means
237	.Coupling to conduit	252	Having fluid operator
237.5	.Loose-leaf sheet binder	253	Having wedge operator
238	.Compressing parts together face	254	Having percussion or explosive
230	to face		operator
239	.Spreading parts apart or	255	Tube, sleeve, or ferrule
233	separating them from face to	200	inserting or removing
		256	Having screw operator
240	face engagement .By rotation of work part	257	C-frame
240.5	Means to insert or remove helix	258	Central screw, work-engagers
		250	around screw
241	.Means to string	250	
242	.Tool handle and tool	259	Work-engager arms along or
243	.Tool chuck and tool	0.50	parallel to screw
243.5	.Overedge assembling means	260	With arm connecting engaging
243.51	Belt-hook attacher		means
	Annular work	261	Pivotal arms
243.518	With radially acting tool	262	Pivotal grippers on screw
	inside annular work	263	Tubular or tube segment forms
243.519	With second workpiece inside		work-engager
	annular work one workpiece	264	Screw threaded work-engager
	moved to shape the other	265	Movable grippers on screw
243.521	Comprising driver for snap-	266	Plate or bar forms work-
	off-mandrel fastener; e.g.,		engager
	Pop (TM) riveter		

267	Having lever operator	FOR	000	CLASS-RELATED FOREIGN DOCUMENTS
268	Plier type means			
269	.Means comprising piston ring			
	group contractor or holder			
270	.Means comprising hand manipulatable tool	DIG	<u>ESTS</u>	
271	Aligner or center	DIG	1	METHOD OR APPARATUS INVOLVING
272	Tube with tube			ADHESIVE
273	Auto wheel with auto chassis	DIG	2	METHOD OR APPARATUS USING
274	Clutch plates			ALUMINUM
275	Means comprising impact	DIG	3	METHOD OR APPARATUS WITH BENDING
	receiving tool	DIG	4	METHOD OR APPARATUS WITH BRAZING
276	C-frame	DIG		METHOD OR APPARATUS WITH CASTING
277	Thread protector (e.g., wheel	DIG		METHOD OR APPARATUS WITH
	axle type)	210	Ū	CENTRIFUGAL CASTING
278	Hand gripper for direct push or	DIG	7	METHOD OR APPARATUS WITH CLEANING
	pull	DIG		METHOD OR APPARATUS WITH
279	Centrifugal separator	DIG	J	COMPOSITE CASTING
280	Tube sleeve or ferrule	DIG	9	METHOD OR APPARATUS WITH CUP
	applying or removing	DIG		FORMED AND BOTTOM REMOVED
281	Thread-tapping grip	DIG	10	METHOD OR APPARATUS WITH DIE
281.1	.With work-holder for assembly	DIG	10	CASTING
281.2	For assembling a luminescent	DIG	11	METHOD OR APPARATUS WITH DRAWING
	mantle	DIG		METHOD OR APPARATUS WITH
281.3	And assembling press (e.g.,	DIO	12	ELECTROPLATING
	truss assembling means, etc.)	DIG	13	METHOD OR APPARATUS WITH ELECTRIC
281.4	Having means to permit support	DIG	13	HEATING
	movement while work is thereon	DIG	14	METHOD OR APPARATUS WITH
281.5	.Including means to relatively	DIG	11	ENAMELING
	position plural work parts	DIG	15	FORMING ARTICLE ON END OF LONG
281.6	.Work-supported apparatus	DIG	13	STOCK AND THEN CUTTING OFF
282	.Tube, sleeve or ferrule	DIG	16	METHOD OR APPARATUS WITH ETCHING
283	.Work gripper, anvil, or element	DIG		METHOD OR APPARATUS WITH MAKING
283.5	.By deforming	DIO	Ι,	FLOW LINES; CRYSTALS
284	MISCELLANEOUS APPARATUS	DIG	1.8	METHOD OR APPARATUS WITH FORGING
_01		DIG	_	METHOD OR APPARATUS WITH GRINDING
		DIG		METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE
		DIG	20	BLANK
CROSS-RI	EFERENCE ART COLLECTIONS	DTG	21	METHOD OR APPARATUS FOR HEATING
CRODD K	BIBRONCO ART CODDOCTIONS			METHOD OR APPARATUS USING INDIUM
900	METHODS AND APPARATUS FOR			METHOD OR APPARATUS WITH KNURLING
900	ASSEMBLY BY ELECTROSTATIC			METHOD OR APPARATUS WITH LOCAL
		DIG	24	HEATING
901	ATTRACTION BALANCING METHOD	DIC	25	
902		DIG	25	PARTICULAR MATERIAL
	FILTER MAKING FIREARM BOLT MAKING	DIC	26	
903		DIG	20	
904	LAMINATED METAL ARTICLE MAKING	חדת	27	MACHINING METHOD OR APPARATUS USING
905	MAKING COIL WOUND WALL SCREEN	שדת	<u> </u>	MAGNESIUM
906	NUCLEAR DEVICE MAKING	חדת	28	MAGNETIC RECORDING DIGEST
				MOLDING WITH OTHER STEP
			30	
	1.D. GOT - DGT - 014			
FOREIGN	ART COLLECTIONS			PRESSING POWDER WITH OTHER STEP
		DТG	3 ∠	ROLLING WITH OTHER STEP

DIG	2.2		DIG	0.1	a. a
DIG		SCORING WITH OTHER STEP	_	81	
DIG		SCALING WITH OTHER STEP	DIG	_	AIR CURRENT GENERATED BY CUTTER
DIG		SHRINK FITTING WITH OTHER STEP	DIG		FAN COAXIAL WITH CUTTER
DIG		SHOT BLASTING WITH OTHER STEP	DIG	_	VACUUM EXHAUST TYPE
DIG		STAMPING WITH OTHER STEP	DIG		WITH FLUID CONTROL VALVE
DIG		SPOT WELDING WITH OTHER STEP	DIG		HOOD ENCASED CUTTER
DIG		SPRAYING WITH OTHER STEP	DIG	_	MULTIPLE FLUID PATHS
DIG	40	STRIPS OF REPEATED ARTICLES - CUT	DIG	88	BY PROJECTING, SQUIRTING OR
~	4.1	UP LATER		0.0	DRIPPING
DIG		TAPER TUBE MAKING	DIG		GAS ENTRAINED LIQUID SUPPLY
DIG		TENSION APPLIED DURING WORKING	DIG		ELEVATED TANK SUPPLY
DIG		UPSETTING AND FLANGING TUBE END	DIG	-	PLURAL DISCHARGE OPENINGS
DIG		VACUUM	DIG		FLUID CHANNEL IN CUTTER
DIG		TITANIUM	DIG		PLURAL DISCHARGE LOCI
DIG		VIBRATION	DIG	94	DEBRIS REMOVER, CATCHER, OR
DIG	- :	EXTRUDING WITH OTHER STEP			DEFLECTOR
DIG		WELDING WITH OTHER STEP	DIG		MAGNETIC OR ELECTROSTATIC
DIG	49	WORK HARDENING WITH OTHER STEP	DIG		MECHANICAL REMOVAL ASSISTANT
DIG	50	CUTTING FLUID APPLICATION AND	DIG		CUTTER ENGAGING CLEANER
		DEBRIS CONTROL	DIG	98	ROTATING, RECIPROCATING OR
DIG	51	POWER STOP CONTROL FOR MOVABLE			OSCILLATING CLEANER
		ELEMENT	_		FLEXIBLE CONVEYOR
DIG		CHIP BREAKER	_		SCREW OR CAM CONVEYOR
DIG	53	WORKPIECE AND DEBRIS SEPARATOR	DIG	101	PAN, BED, OR TABLE
DIG	54	FLUID CONTROL INTERRELATED WITH	DIG	102	DEBRIS CHUTE
		MACHINE TOOL MECHANISM	DIG	104	TOOL OR WORK ATTACHED
DIG	55	WITH CUTTER DRIVE	DIG	105	ASSEMBLY, MAGNETIC, OR INDICIA
DIG	56	WITH SHIELD OR HOOD MOVEMENTS			TOOL
DIG	57	WITH CUTTER FEED			
DIG	59	HOOD ACTUATED BY TOOL OR WORK			
		APPROACH			
DIG		PROGRESSIVE DISPLACEMENT OF HOOD			
DIG		PLURAL-TYPE DEBRIS REMOVERS			
DIG	62	RUBBING TRANSFER OF SOLID COATING			
		TO ROTATING ELEMENT			
DIG		FLUID CONVEYOR OR APPLICATOR			
DIG	64	AMBULATORY CUTTER WITH FLUENT			
		CONDUIT			
DIG		CUTTER CONTAINED SUPPLY RESERVOIR			
DIG		FLUID FLOW TO CHANNELED CUTTER			
DIG		ROTATING CUTTER			
DIG		HOLLOW SPINDLE CONTAINS			
DIG		FLUID SPREADER CONTACTS CUTTER			
DIG	70	ROTARY OR OSCILLATING FLUID APPLICATOR			
DIG	71	COMPLETE IMMERSION OF CUTTER			
DIG		DIP OR SPLASH SUPPLY			
DIG		CHAIN OR BELT CONVEYOR			
DIG		PARTIAL IMMERSION OF CUTTER			
DIG		ADJUSTABLE LIQUID LEVEL			
DIG		MOVABLE LIQUID-CARRYING TROUGH			
DIG		WITH SEPARATOR OR FILTER			
DIG					
DIG		AIR BLAST AND/OR VACUUM CONVEYOR			
הדת	13	REMOVABLE DEBRIS RECEPTACLE			